

CLAIMS

What is claimed is:

1. A concrete form panel assembly comprising:
a frame comprising a plurality of studs;
a first panel and a second panel fastened to said plurality of studs, said first panel and said second panels spanning said plurality of studs to define a concrete receiving cavity between said first panel and said second panel and said plurality of studs; and
a fastening strip oriented vertically against at least one of said first panel and said second panel in alignment with said plurality of studs.
2. The insulated concrete form panel assembly of Claim 1 wherein said fastening strip attaches said at least one of said first panel and said second panel to a stud of said plurality of studs.
3. The insulated concrete form panel assembly of Claim 1 wherein said at least one of said first panel and said second panel comprises an insulating panel.
4. The insulated concrete form panel assembly of Claim 1 wherein said at least one of said first panel and said second panel comprises a cementitious panel.

5. A concrete form panel assembly comprising:

a frame comprising a plurality of studs;

a first panel and a second panel fastened to said plurality of studs, said first panel and said second panel spanning said plurality of studs to define a concrete receiving cavity between said first panel and said second panel and said plurality of studs;

a concrete wall received in said concrete receiving cavity, having a top surface and a bottom surface; and

a concrete body having an exterior surface wherein said exterior surface meets said concrete wall at a concrete interface with one of said top surface and said bottom surface, said concrete interface extending from about said first panel to about said second panel.

6. The insulated concrete form panel assembly of Claim 5 wherein said exterior surface comprises a groove and said one of said top surface and said bottom surface comprises a keyway.

7. The insulated concrete form panel assembly of Claim 5 wherein said concrete body comprises a footing.

8. The insulated concrete form panel assembly of Claim 5 including a reinforcing member connecting said concrete wall to said concrete body, said reinforcing member embedded in said concrete wall and said concrete body.

9. The insulated concrete form panel assembly of Claim 8 wherein said reinforcing member comprises a metal rod.

10. A concrete form panel assembly comprising:
 - a frame comprising a plurality of studs;
 - a first panel and a second panel fastened to said plurality of studs, said first panel and said second panel spanning said plurality of studs to define a concrete receiving cavity between said first panel and said second panel and said plurality of studs; and
 - a netting mounted to said plurality of studs, said netting spanning said plurality of studs.
11. The insulated concrete wall assembly of Claim 10 wherein said netting comprises a cloth mesh.
12. The insulated concrete wall assembly of Claim 10 wherein said netting is embedded in at least one of said first panel and said second panel.
13. The insulated concrete wall assembly of Claim 12 wherein said at least one of said first panel and said second panel comprises a cementitious panel, said netting embedded in said cementitious panel.
14. The insulated concrete wall assembly of Claim 10 wherein said netting is sandwiched between said plurality of studs and at least one of said first panel and said second panel.

15. A concrete column assembly comprising:
a column comprising a plurality of studs; and
a first panel and a second panel fastened to said plurality of studs, said first panel and said second panel spanning said plurality of studs to define a concrete receiving cavity between said first panel and said second panel and said plurality of studs.
16. The concrete column assembly of Claim 15 wherein at least one of said first panel and said second panel comprises a cementitious panel.
17. The concrete column assembly of Claim 15 wherein said plurality of studs comprise steel studs.
18. The concrete column assembly of Claim 15 including a concrete footing mounted to said column.
19. The concrete column assembly of Claim 18 wherein a reinforcing member extends between said concrete footing and said column.

20. A method of constructing a concrete wall assembly comprising the steps of:

- a) erecting a plurality of studs along a vertical direction;
- b) spacing said plurality of studs to form a port;
- c) sandwiching said plurality of studs between a first panel and a second panel to form a first concrete receiving cavity and a second concrete receiving cavity, the first concrete receiving cavity forming a first side of the port and the second concrete receiving cavity forming a second side of the port; and
- d) pouring concrete along the vertical direction into the first concrete receiving cavity and the second concrete receiving cavity.

21. The method of constructing the concrete wall assembly of Claim 20 including the step of:

- e) pouring concrete along the vertical direction into a third concrete receiving cavity between the first concrete receiving cavity and the second concrete receiving cavity, the third concrete receiving cavity forming a third side of the port.

22. The method of constructing the concrete wall assembly of Claim 21 including the step of:

- f) pouring concrete along the vertical direction into a fourth concrete receiving cavity between the first concrete receiving cavity and the second concrete receiving cavity, the fourth concrete receiving cavity forming a fourth side of the port.

23. The method of constructing the concrete wall of Claim 22 including the step of:

g) placing a form on the fourth concrete receiving cavity to create an indentation for receiving a window frame.

24. A concrete wall assembly comprising:

a frame comprising a plurality of studs extending along a vertical direction;

a first panel and a second panel fastened to said plurality of studs, said first panel and said second panel spanning said plurality of studs to define a concrete receiving cavity between said first panel and said second panel and said plurality of studs;

a port having a top and a bottom; and

a port concrete receiving cavity defining at least one of said top and said bottom of said port, said port concrete receiving cavity open to receive concrete along said vertical direction of said plurality of studs.

25. The concrete wall assembly of Claim 24 wherein said port comprises a window opening.

26. The concrete wall assembly of Claim 25 wherein said window opening has an indentation to receive a window frame.

27. The concrete wall assembly of Claim 24 wherein said port comprises a door opening.

28. The concrete wall assembly of Claim 24 wherein said port concrete receiving cavity is beneath said port in said vertical direction.

29. The concrete wall assembly of Claim 24 wherein said port concrete receiving cavity is above said port in said vertical direction.

30. The concrete wall assembly of Claim 24 including a reinforcing member extending through said port concrete receiving cavity.

31. A concrete form wall assembly:
- a frame comprising a plurality of studs;
 - a first panel and a second panel fastened to said plurality of studs, said first panel and said second panel spanning said plurality of studs to define a concrete receiving cavity between said first panel and said second panel and said plurality of studs;
 - a reinforcing member connecting said plurality of studs disposed within said concrete receiving cavity;
 - a truss; and
 - a truss anchor connecting said reinforcing member to said truss.
32. The concrete wall assembly of Claim 31 wherein said truss anchor comprises a hook.
33. The concrete wall assembly of Claim 32 wherein said hook has an opening to receive said reinforcing member, said opening expandable between a first dimension and a second dimension, said first dimension greater than a dimension of said reinforcing member and said second dimension less than said dimension of said reinforcing member.
34. The concrete wall assembly of Claim 31 wherein said reinforcing member extends through said plurality of studs.
35. The concrete wall assembly of Claim 31 wherein said truss anchor is embedded in concrete in said concrete receiving cavity.

36. A truss anchor comprising:
- a first portion for connection to a truss; and
 - a second portion for connection to a wall reinforcing member, said second portion having an opening to receive a reinforcing member, said opening expandable between a first dimension and a second dimension wherein said first dimension is greater than said second dimension.
37. The truss anchor of Claim 36 wherein said second portion is resiliently biased toward said second dimension.
38. The truss anchor of Claim 37 wherein said second portion comprises a hook.
39. The truss anchor of Claim 38 wherein said hook has a lip proximate said opening to receive the reinforcing member, said lip movable between said first dimension and said second dimension.
40. The truss anchor of Claim 36 wherein said first portion comprises a first planar member oriented along a first plane and said second portion comprises a second planar member oriented along a second plane transverse to said first plane.